

Amendments to the Abstract of the disclosure

(Replacement Abstract)

A metal detector (1) used for identifying contaminants in products. The detector (1) includes an oscillator coil (10) that may be formed as two series wound coils (33, 34[, 35]) having relatively smaller dimensions or as two parallel wound coils (29, 30) having relatively larger dimensions. A pair of input coils (13, 14) is located adjacent to the oscillator coil (10). A first signal (8) is generated by the first input coil (13) in response to the presence of a metallic object, while a second signal (24) is generated by the second input coil (14) in response to the presence of a metallic object. By measuring the ratio of the first signal (8) to the second signal (24) the physical location of a metal object within the metal detector cavity (7) can be determined.